

8. The method of claim 7, wherein said bone marrow or peripheral blood stem cells are collected from said patient prior to said aggressive therapeutic regimen.

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9. The method of claim 8, wherein said bone marrow or peripheral blood stem cells are treated with an amount of antibody specific for a malignant B cell surface antigen in vitro effective to purge contaminating tumor B cells.

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10. The method of claim 1, wherein the patient is treated in step (1) with RITUXAN® and/or radioimmunotherapy.

11. The method of claim 1, wherein the antibody used in step (3) is an anti-CD19 or an anti-CD20 antibody or a fragment thereof.

12. The method of claim 11, wherein said antibody is a chimeric, primate, primatized, humanized or human antibody.

13. The method of claim 12, wherein said antibody is the chimeric anti-CD20 antibody RITUXAN®.

14. The method of claim 13, wherein RITUXAN® is administered at a dosage ranging from about 0.1 to 20 mg/kg about one week after transplant. *✓*